

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/562,389
Source: IFCWP
Date Processed by STIC: 01/11/2007

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/562,389

DATE: 01/11/2007

TIME: 09:42:42

Input Set : A:\13407-039US1.txt

Output Set: N:\CRF4\01112007\J562389.raw

4 <110> APPLICANT: Geesaman, Bard J.
 5 Brass, Laura
 7 <120> TITLE OF INVENTION: SIRT1 AND GENETIC DISORDERS
 10 <130> FILE REFERENCE: 13407-039US1
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/562,389
 C--> 12 <141> CURRENT FILING DATE: 2005-12-27
 12 <150> PRIOR APPLICATION NUMBER: PCT/US2004/021189
 13 <151> PRIOR FILING DATE: 2004-07-01
 15 <150> PRIOR APPLICATION NUMBER: US 60/484,327
 16 <151> PRIOR FILING DATE: 2003-07-02
 18 <160> NUMBER OF SEQ ID NOS: 3
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 4107
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo Sapiens
 27 <220> FEATURE:
 28 <221> NAME/KEY: CDS
 29 <222> LOCATION: (54)...(2297)
 31 <400> SEQUENCE: 1
 32 gtcgagcggg agcagaggag gcgaggaggagg agggccagag aggcaattgg aag atg 56
 33 Met
 34 1
 36 gcg gac gag gcg gcc ctc gcc ctt cag ccc ggc ggc tcc ccc tcg gcg 104
 37 Ala Asp Glu Ala Ala Leu Ala Leu Gln Pro Gly Gly Ser Pro Ser Ala
 38 5 10 15
 40 gcg ggg gcc gac agg gag gcc gcg tcg tcc ccc gcc ggg gag cgg ctc 152
 41 Ala Gly Ala Asp Arg Glu Ala Ala Ser Ser Pro Ala Gly Glu Pro Leu
 42 20 25 30
 44 cgc aag agg ccg cgg aga gat ggt ccc ggc ctc gag cgg agc ccg ggc 200
 45 Arg Lys Arg Pro Arg Arg Asp Gly Pro Gly Leu Glu Arg Ser Pro Gly
 46 35 40 45
 48 gag ccc ggt ggg gcg gcc cca gag cgt gag gtg ccg gcg gcg gcc agg 248
 49 Glu Pro Gly Gly Ala Ala Pro Glu Arg Glu Val Pro Ala Ala Ala Arg
 50 50 55 60 65
 52 ggc tgc ccg ggt gcg gcg gcg gcg ctg tgg cgg gag gcg gag gca 296
 53 Gly Cys Pro Gly Ala Ala Ala Ala Leu Trp Arg Glu Ala Glu Ala
 54 70 75 80
 56 gag gcg gcg gca ggc ggg gag caa gag gcc cag gcg act gcg gcg 344
 57 Glu Ala Ala Ala Ala Gly Gly Glu Gln Glu Ala Gln Ala Thr Ala Ala
 58 85 90 95
 60 gct ggg gaa gga gac aat ggg ccg ggc ctg cag ggc cca tct ccg gag 392
 61 Ala Gly Glu Gly Asp Asn Gly Pro Gly Leu Gln Gly Pro Ser Arg Glu

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| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|--|
| 62 | 100 | 105 | 110 | | | | | | | | | | | | | | | | |
| 64 | cca | ccg | gcc | gac | aac | ttg | tac | gac | gaa | gac | gac | gac | gac | gag | ggc | | 440 | | |
| 65 | Pro | Pro | Leu | Ala | Asp | Asn | Leu | Tyr | Asp | Glu | Asp | Asp | Asp | Asp | Glu | Gly | | | |
| 66 | 115 | | | | | | 120 | | | | 125 | | | | | | | 488 | |
| 68 | gag | gag | gag | gaa | gag | gcg | gcg | gcg | gcg | att | ggg | tac | cga | gat | aac | | | | |
| 69 | Glu | Glu | Glu | Glu | Ala | Ala | Ala | Ala | Ile | Gly | Tyr | Arg | Asp | Asn | | | | | |
| 70 | 130 | | | | | | 135 | | | 140 | | | | | | | 145 | | |
| 72 | ctt | ctg | ttc | ggt | gat | gaa | att | atc | act | aat | ggt | ttt | cat | tcc | tgt | gaa | | 536 | |
| 73 | Leu | Leu | Phe | Gly | Asp | Glu | Ile | Ile | Thr | Asn | Gly | Phe | His | Ser | Cys | Glu | | | |
| 74 | | | | | | | 150 | | | 155 | | | | | | | 160 | | |
| 76 | agt | gat | gag | gag | gat | aga | gcc | tca | cat | gca | agc | tct | agt | gac | tgg | act | | 584 | |
| 77 | Ser | Asp | Glu | Glu | Asp | Arg | Ala | Ser | His | Ala | Ser | Ser | Ser | Asp | Trp | Thr | | | |
| 78 | | | | | | | 165 | | | 170 | | | | | | | 175 | | |
| 80 | cca | agg | cca | ccg | ata | ggt | cca | tat | act | ttt | gtt | cag | caa | cat | ctt | atg | | 632 | |
| 81 | Pro | Arg | Pro | Arg | Ile | Gly | Pro | Tyr | Thr | Phe | Val | Gln | Gln | His | Leu | Met | | | |
| 82 | | | | | | | 180 | | | 185 | | | | | | | 190 | | |
| 84 | att | ggc | aca | gat | cct | cga | aca | att | ctt | aaa | gat | tta | tgg | ccg | gaa | aca | | 680 | |
| 85 | Ile | Gly | Thr | Asp | Pro | Arg | Thr | Ile | Leu | Lys | Asp | Leu | Leu | Pro | Glu | Thr | | | |
| 86 | | | | | | | 195 | | | 200 | | | | | | | 205 | | |
| 88 | ata | cct | cca | cct | gag | ttg | gat | gat | atg | aca | ctg | tgg | cag | att | gtt | att | | 728 | |
| 89 | Ile | Pro | Pro | Pro | Glu | Leu | Asp | Asp | Met | Thr | Leu | Trp | Gln | Ile | Val | Ile | | | |
| 90 | 210 | | | | | | 215 | | | 220 | | | | | | | 225 | | |
| 92 | aat | atc | ctt | tca | gaa | cca | cca | aaa | agg | aaa | aaa | agg | aaa | aga | aaa | gat | att | aat | |
| 93 | Asn | Ile | Leu | Ser | Glu | Pro | Pro | Lys | Arg | Lys | Lys | Arg | Lys | Asp | Ile | Asn | | | |
| 94 | | | | | | | 230 | | | 235 | | | | | | | 240 | | |
| 96 | aca | att | gaa | gat | gct | gtg | aaa | tta | ctg | caa | gag | tgc | aaa | aaa | att | ata | | 824 | |
| 97 | Thr | Ile | Glu | Asp | Ala | Val | Lys | Leu | Leu | Gln | Glu | Cys | Lys | Lys | Ile | Ile | | | |
| 98 | | | | | | | 245 | | | 250 | | | | | | | 255 | | |
| 100 | gtt | cta | act | gga | gct | ggg | gtg | tct | gtt | tca | tgt | gga | ata | cct | gac | ttc | | 872 | |
| 101 | Val | Leu | Thr | Gly | Ala | Gly | Val | Ser | Val | Ser | Cys | Gly | Ile | Pro | Asp | Phe | | | |
| 102 | | | | | | | 260 | | | 265 | | | | | | | 270 | | |
| 104 | agg | tca | agg | gat | ggt | att | tat | gct | cgc | ctt | gct | gta | gac | ttc | cca | gat | | 920 | |
| 105 | Arg | Ser | Arg | Asp | Gly | Ile | Tyr | Ala | Arg | Leu | Ala | Val | Asp | Phe | Pro | Asp | | | |
| 106 | | | | | | | 275 | | | 280 | | | | | | | 285 | | |
| 108 | ctt | cca | gat | cct | caa | ccg | atg | ttt | gat | att | gaa | tat | ttc | aga | aaa | gat | | 968 | |
| 109 | Leu | Pro | Asp | Pro | Gln | Ala | Met | Phe | Asp | Ile | Glu | Tyr | Phe | Arg | Lys | Asp | | | |
| 110 | 290 | | | | | | 295 | | | 300 | | | | | | | 305 | | |
| 112 | cca | aga | cca | ttc | ttc | aag | ttt | gca | aag | ata | tat | cct | gga | caa | ttc | | 1016 | | |
| 113 | Pro | Arg | Pro | Phe | Phe | Lys | Phe | Ala | Lys | Glu | Ile | Tyr | Pro | Gly | Gln | Phe | | | |
| 114 | | | | | | | 310 | | | 315 | | | | | | | 320 | | |
| 116 | cag | cca | tct | ctc | tgt | cac | aaa | ttc | ata | gcc | ttg | tca | gat | aag | gaa | gga | | 1064 | |
| 117 | Gln | Pro | Ser | Leu | Cys | His | Lys | Phe | Ile | Ala | Leu | Ser | Asp | Lys | Glu | Gly | | | |
| 118 | | | | | | | 325 | | | 330 | | | | | | | 335 | | |
| 120 | aaa | cta | ctt | cgc | aac | tat | acc | cag | aac | ata | gac | acg | ctg | gaa | cag | gtt | | 1112 | |
| 121 | Lys | Leu | Leu | Arg | Asn | Tyr | Thr | Gln | Asn | Ile | Asp | Thr | Leu | Glu | Gln | Val | | | |
| 122 | | | | | | | 340 | | | 345 | | | | | | | 350 | | |
| 124 | gct | gga | atc | caa | agg | ata | att | cag | tgt | cat | ggt | tcc | ttt | gca | aca | gca | | 1160 | |
| 125 | Ala | Gly | Ile | Gln | Arg | Ile | Ile | Gln | Cys | His | Gly | Ser | Phe | Ala | Thr | Ala | | | |
| 126 | | | | | | | 355 | | | 360 | | | | | | | 365 | | |

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Input Set : A:\13407-039US1.txt
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| | |
|---|------|
| 128 tct tgc ctg att tgt aaa tac aaa gtt gac tgt gaa gct gta cga gga | 1208 |
| 129 Ser Cys Leu Ile Cys Lys Tyr Lys Val Asp Cys Glu Ala Val Arg Gly | |
| 130 370 375 380 385 | |
| 132 gat att ttt aat cag gta gtt cct cga tgt cct agg tgc cca gct gat | 1256 |
| 133 Asp Ile Phe Asn Gln Val Val Pro Arg Cys Pro Arg Cys Pro Ala Asp | |
| 134 390 395 400 | |
| 136 gaa ccg ctt gct atc atg aaa cca gag att gtc ttt ttt ggt gaa aat | 1304 |
| 137 Glu Pro Leu Ala Ile Met Lys Pro Glu Ile Val Phe Phe Gly Glu Asn | |
| 138 405 410 415 | |
| 140 tta cca gaa cag ttt cat aga gcc atg aag tat gac aaa gat gaa gtt | 1352 |
| 141 Leu Pro Glu Gln Phe His Arg Ala Met Lys Tyr Asp Lys Asp Glu Val | |
| 142 420 425 430 | |
| 144 gac ctc ctc att gtt att ggg tct tcc ctc aaa gta aga cca gta gca | 1400 |
| 145 Asp Leu Leu Ile Val Ile Gly Ser Ser Leu Lys Val Arg Pro Val Ala | |
| 146 435 440 445 | |
| 148 cta att cca agt tcc ata ccc cat gaa gtg cct cag ata tta att aat | 1448 |
| 149 Leu Ile Pro Ser Ser Ile Pro His Glu Val Pro Gln Ile Leu Ile Asn | |
| 150 450 455 460 465 | |
| 152 aga gaa cct ttg cct cat ctg cat ttt gat gta gag ctt ctt gga gac | 1496 |
| 153 Arg Glu Pro Leu Pro His Leu His Phe Asp Val Glu Leu Leu Gly Asp | |
| 154 470 475 480 | |
| 156 tgt gat gtc ata att aat gaa ttg tgt cat agg tta ggt ggt gaa tat | 1544 |
| 157 Cys Asp Val Ile Ile Asn Glu Leu Cys His Arg Leu Gly Glu Tyr | |
| 158 485 490 495 | |
| 160 gcc aaa ctt tgc tgt aac cct gta aag ctt tca gaa att act gaa aaa | 1592 |
| 161 Ala Lys Leu Cys Asn Pro Val Lys Leu Ser Glu Ile Thr Glu Lys | |
| 162 500 505 510 | |
| 164 cct cca cga aca caa aaa gaa ttg gct tat ttg tca gag ttg cca ccc | 1640 |
| 165 Pro Pro Arg Thr Gln Lys Glu Leu Ala Tyr Leu Ser Glu Leu Pro Pro | |
| 166 515 520 525 | |
| 168 aca cct ctt cat gtt tca gaa gac tca agt tca cca gaa aga act tca | 1688 |
| 169 Thr Pro Leu His Val Ser Glu Asp Ser Ser Pro Glu Arg Thr Ser | |
| 170 530 535 540 545 | |
| 172 cca cca gat tct tca gtg att gtc aca ctt tta gac caa gca gct aag | 1736 |
| 173 Pro Pro Asp Ser Ser Val Ile Val Thr Leu Leu Asp Gln Ala Ala Lys | |
| 174 550 555 560 | |
| 176 agt aat gat gat tta gat gtg tct gaa tca aaa ggt tgt atg gaa gaa | 1784 |
| 177 Ser Asn Asp Asp Leu Asp Val Ser Glu Ser Lys Gly Cys Met Glu Glu | |
| 178 565 570 575 | |
| 180 aaa cca cag gaa gta caa act tct agg aat gtt gaa agt att gct gaa | 1832 |
| 181 Lys Pro Gln Glu Val Gln Thr Ser Arg Asn Val Glu Ser Ile Ala Glu | |
| 182 580 585 590 | |
| 184 cag atg gaa aat ccg gat ttg aag aat gtt ggt tct agt act ggg gag | 1880 |
| 185 Gln Met Glu Asn Pro Asp Leu Lys Asn Val Gly Ser Ser Thr Gly Glu | |
| 186 595 600 605 | |
| 188 aaa aat gaa aga aga act tca gtg gct gga aca gtg aga aaa tgc tgg cct | 1928 |
| 189 Lys Asn Glu Arg Thr Ser Val Ala Gly Thr Val Arg Lys Cys Trp Pro | |
| 190 610 615 620 625 | |
| 192 aat aga gtg gca aag gag cag att agt agg cgg ctt gat ggt aat cag | 1976 |

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| | | |
|-----|--|------|
| 250 | aaaagtttgt tttaattat tttacagt aagactgtt tcagctctt ttatattgt | 3937 |
| 251 | catagtcttt tatgttaatt actggcatat gttttgtaga ctgtttaatg actggatatc | 3997 |
| 252 | ttccctcaac ttttgaataa caaaaccagt gttttttact tgtacactgt tttaaaagtct | 4057 |
| 253 | attaaaaatg tcatttgact ttttctgtt aaaaaaaaaa aaaaaaaaaa | 4107 |
| 255 | <210> SEQ ID NO: 2 | |
| 256 | <211> LENGTH: 747 | |
| 257 | <212> TYPE: PRT | |
| 258 | <213> ORGANISM: Homo Sapiens | |
| 260 | <400> SEQUENCE: 2 | |
| 261 | Met Ala Asp Glu Ala Ala Leu Ala Gln Pro Gly Gly Ser Pro Ser | |
| 262 | 1 5 10 15 | |
| 263 | Ala Ala Gly Ala Asp Arg Glu Ala Ala Ser Ser Pro Ala Gly Glu Pro | |
| 264 | 20 25 30 | |
| 265 | Leu Arg Lys Arg Pro Arg Arg Asp Gly Pro Gly Leu Glu Arg Ser Pro | |
| 266 | 35 40 45 | |
| 267 | Gly Glu Pro Gly Gly Ala Ala Pro Glu Arg Glu Val Pro Ala Ala Ala | |
| 268 | 50 55 60 | |
| 269 | Arg Gly Cys Pro Gly Ala Ala Ala Ala Leu Trp Arg Glu Ala Glu | |
| 270 | 65 70 75 80 | |
| 271 | Ala Glu Ala Ala Ala Gly Gly Glu Gln Glu Ala Gln Ala Thr Ala | |
| 272 | 85 90 95 | |
| 273 | Ala Ala Gly Glu Gly Asp Asn Gly Pro Gly Leu Gln Gly Pro Ser Arg | |
| 274 | 100 105 110 | |
| 275 | Glu Pro Pro Leu Ala Asp Asn Leu Tyr Asp Glu Asp Asp Asp Asp Glu | |
| 276 | 115 120 125 | |
| 277 | Gly Glu Glu Glu Glu Ala Ala Ala Ala Ile Gly Tyr Arg Asp | |
| 278 | 130 135 140 | |
| 279 | Asn Leu Leu Phe Gly Asp Glu Ile Ile Thr Asn Gly Phe His Ser Cys | |
| 280 | 145 150 155 160 | |
| 281 | Glu Ser Asp Glu Glu Asp Arg Ala Ser His Ala Ser Ser Asp Trp | |
| 282 | 165 170 175 | |
| 283 | Thr Pro Arg Pro Arg Ile Gly Pro Tyr Thr Phe Val Gln Gln His Leu | |
| 284 | 180 185 190 | |
| 285 | Met Ile Gly Thr Asp Pro Arg Thr Ile Leu Lys Asp Leu Leu Pro Glu | |
| 286 | 195 200 205 | |
| 287 | Thr Ile Pro Pro Glu Leu Asp Asp Met Thr Leu Trp Gln Ile Val | |
| 288 | 210 215 220 | |
| 289 | Ile Asn Ile Leu Ser Glu Pro Pro Lys Arg Lys Lys Arg Lys Asp Ile | |
| 290 | 225 230 235 240 | |
| 291 | Asn Thr Ile Glu Asp Ala Val Lys Leu Leu Gln Glu Cys Lys Ile | |
| 292 | 245 250 255 | |
| 293 | Ile Val Leu Thr Gly Ala Gly Val Ser Val Ser Cys Gly Ile Pro Asp | |
| 294 | 260 265 270 | |
| 295 | Phe Arg Ser Arg Asp Gly Ile Tyr Ala Arg Leu Ala Val Asp Phe Pro | |
| 296 | 275 280 285 | |
| 297 | Asp Leu Pro Asp Pro Gln Ala Met Phe Asp Ile Glu Tyr Phe Arg Lys | |
| 298 | 290 295 300 | |
| 299 | Asp Pro Arg Pro Phe Phe Lys Phe Ala Lys Glu Ile Tyr Pro Gly Gln | |
| 300 | 305 310 315 320 | |

VERIFICATION SUMMARY

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Input Set : A:\13407-039US1.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date